Title (en)

Photosensible multilayer material and process for its production.

Title (de)

Lichtempfindliches Mehrschichtenmaterial und Verfahren zu seiner Herstellung.

Title (fr)

Matériau photosensible à plusieurs couches et procédé pour sa production.

Publication

EP 0053260 A1 19820609 (DE)

Application

EP 81108479 A 19811019

Priority

DE 3045549 A 19801203

Abstract (en)

1. A photosensitive multi-layer material having (a) between a metal base B and (b) a photosensitive layer R of a mixture which is soluble or dispersible in an aqueous solvent and contains at least one photopolymerizable, ethylenically unsaturated, low molecular weight compound, at least one polymer compatible therewith, and a photoinitiator, (c) at least one adhesive layer, this adhesive layer AL being from 5 to 100 mu m thick and adjacent to the metal base B if several adhesive layers are present, and containing a polyurethane as binder, and pigment, wherein the adhesive layer contains, as aole or main polyurethane binder, a reaction product (A) derived from (A1) a binder, containing reactive hydrogen atoms, of the formula see diagramm : EP0053260,P13,F5 where X is see diagramm : EP0053260,P13,F6 or see diagramm : EP0053260,P13,F7 Y is see diagramm : EP0053260,P14,F1 R is H or CH3 , R1 , R2 , R3 and R4 are H, CH3 , CH2 OH, Cl or Br and n is a number from 3 to 150, (A2) from 0 to 30% by weight, based on the sum of the amounts of (A1) and (A2), of an additional oligomer and/or polymer, containing reactive hydrogen atoms, and (A3) from 0.5 to 5 equivalents, per equivalent of reactive hydrogen atoms of (A1) + (A2), of a polyisocyanate, (B) from 10 to 300% by weight, based on components (A1) and (A2) of the polyurethane binder, of a pigment and (C) from 0 to 50% by weight, based on the amount of pigment (B), of an inorganic filler.

Abstract (de)

Lichtempfindliche Mehrschichtenmaterialien aus einem metallischen Trägerblech und einer lichtempfindlichen, in wäßrigem Lösungsmittel löslichen oder dispergierbaren Schicht R enthalten zwischen dem metallischen Träger und der lichtempfindlichen Schicht eine haftvermittelnde Schicht aus einem pigmentierten Polyurethan-Bindemittel, welches durch Umsetzung von höhermolekularen, hydroxylgruppenhaltigen Epoxid- oder Phenoxy-Harzen mit Polyisocyanaten gebildet worden ist.

IPC 1-7

G03C 1/76; G03C 1/68; G03C 1/727; G03C 1/94; G03F 7/02; G03F 7/16

IPC 8 full level

G03F 7/09 (2006.01); **G03F 7/11** (2006.01); B41N 1/06 (2006.01)

CPC (source: EP)

G03F 7/11 (2013.01)

Citation (search report)

Keine Entgegenhaltungen

Cited by

EP0499792A1; WO0217020A1; US7033724B2; US8545661B2

Designated contracting state (EPC)

BE CH DE FR GB IT NL

DOCDB simple family (publication)

EP 0053260 A1 19820609; **EP 0053260 B1 19840201**; DE 3045549 A1 19820708; DE 3162132 D1 19840308; JP S57119350 A 19820724

DOCDB simple family (application)

EP 81108479 A 19811019; DE 3045549 A 19801203; DE 3162132 T 19811019; JP 19300581 A 19811202